

What is claimed is:

1. An internal combustion engine, comprising:
 - a cylinder having a combustion chamber;
 - an induction passageway supplying at least one combustion component to the combustion chamber;
 - an exhaust passageway exhausting at least one combustion product from the combustion chamber;
 - a venting passageway extending from the combustion chamber for venting the at least one combustion component from the combustion chamber; and
 - a decompressor at least partially located within the venting passageway, the decompressor selectively opening and closing the venting passageway in response to a pressure in the combustion chamber.
2. The internal combustion engine of claim 1, wherein the decompressor includes an expansible cavity operatively connected to the combustion chamber, the cavity having an expanded position and a contracted position, the decompressor closing the venting passageway when the expansible cavity is in one of the expanded position and the contracted position, the decompressor opening the venting passageway when the expansible cavity is in the other of the expanded position and the contracted position.
3. The internal combustion engine of claim 2, wherein the decompressor includes an expansible cavity operatively connected to the combustion chamber, the cavity having an expanded position and a contracted position, the decompressor closing the venting passageway when the expansible cavity is in the expanded position, the decompressor opening the venting passageway when the expansible cavity is in the contracted position.
4. The internal combustion engine of claim 2, wherein the expansible cavity is in fluid communication with the combustion chamber.

5. The internal combustion engine of claim 3, wherein the expansible cavity is in fluid communication with the combustion chamber.

6. The internal combustion engine of claim 5, wherein the decompressor comprises:
a valve housing; and

a valve body moveably received within the valve housing, wherein the valve body has a first position corresponding to the contracted position of the cavity such that the venting passageway is open and a second position corresponding to the expanded position of the cavity such that the venting passageway is closed.

7. The internal combustion engine of claim 6, wherein the valve body is slidably received within the valve housing.

8. The internal combustion engine of claim 6, wherein the expansible cavity is at least partially formed by the valve housing and the valve body.

9. The internal combustion engine of claim 8, wherein the valve body includes a passageway formed therein, the valve body passageway being in fluid communication with the expansible cavity.

10. The internal combustion engine of claim 9, wherein the valve body passageway is also in fluid communication with the combustion chamber.

11. The internal combustion engine of claim 9, further comprising a pressure sensitive closure providing a releasable closure between the expansible cavity and the valve body passageway.

12. The internal combustion engine of claim 11, wherein the pressure sensitive closure is moveable between an open position and a closed position, and is biased in one of the open and the closed positions, and changes position in response to a pressure in the combustion chamber.

13. The internal combustion engine of claim 12, wherein the pressure sensitive closure is biased by a spring in the closed position, the spring having a first end secured to the valve body and a second end secured the pressure sensitive closure.

14. The internal combustion engine of claim 7, further comprising a cylinder housing having a cavity formed therein, wherein the decompressor is received within the cavity.

15. The internal combustion engine of claim 14, wherein the cavity forms a portion of the venting passageway.

16. The internal combustion engine according of claim 14, wherein the decompressor is releasably secured within the cavity by a cap.

17. The internal combustion engine of claim 16, wherein the expansible cavity is at least partially formed by the valve housing, the valve body and the cap.

18. The internal combustion engine of claim 6, further comprising a spring biasing the valve body in the first position.

19. The internal combustion engine of claim 18, wherein the expansion of the cavity causes the valve body to move from the first position to the second position against the bias of the spring.

20. The internal combustion engine of claim 2, further comprising a pressure sensitive closure providing a releasable closure between the expansible cavity and the venting passageway.

21. The internal combustion engine of claim 1, wherein the induction passageway is in fluid communication with the combustion chamber.

22. The internal combustion engine of claim 1, wherein the venting passage is in fluid communication with the induction passageway.

23. The internal combustion engine of claim 1, further comprising a cylinder housing at least partially forming the cylinder, wherein the induction passageway is at least partially formed in the cylinder housing.

24. A decompressor suitable for use with a venting passageway of an internal combustion engine for selectively venting a combustion chamber, the decompressor comprising:

a valve housing;

a valve body slidably received within the valve housing, wherein the valve body has a first position such that the venting passageway would be open when the decompressor is being used with the engine, and a second position such that the venting passageway would be closed when the decompressor is being used with the engine; and

an expansible cavity, the expansible cavity having an expanded position and a contracted position, the expansible cavity being operatively connected to the valve body such that when the expansible cavity is in the expanded position the valve body is in the second position and when the expansible cavity is in the contracted position the valve body is the first position, the expansible cavity suitable operable connection to the combustion chamber such that it would change position in response to a pressure in the combustion chamber.

25. The decompressor according to claim 24, wherein the valve body includes a passageway formed therein.

26. The decompressor according to claim 25, wherein the passageway is in fluid communication with the expansible cavity.

27. The decompressor according to claim 26, wherein the passageway is also in fluid communication with the combustion chamber.

28. The decompressor according to claim 26, further comprising a pressure sensitive closure to provide a releasable closure between the expansible cavity and the passageway.

29. The decompressor of claim 27, further comprising a pressure sensitive closure providing a releasable closure between the expansible cavity and the passageway.

30. The decompressor of claim 28, wherein the pressure sensitive closure is moveable between an open position and a closed position, and is biased in one of the open and the closed positions, and changes position in response to a pressure in the combustion chamber.

31. The decompressor of claim 30, wherein the pressure sensitive closure is biased by a spring in the closed position, the spring having a first end secured to the valve body and a second end secured to the pressure sensitive closure.